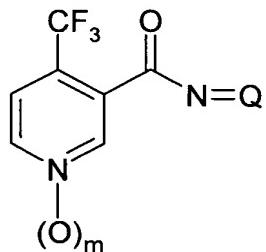


AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

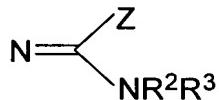
1. (Original) A compound of the formula (I):



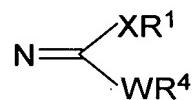
(I)

wherein:

$\text{N}=\text{Q}$ is a formula (A) or (B):



(A)

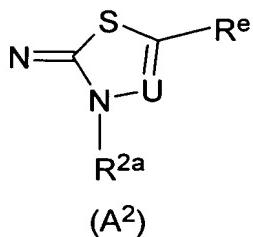


(B)

Z is YR^1 or NR^5R^6 ;

or when Z is YR^1 , R^1 and R^3 may form together with the adjacent $-\text{Y}-\text{C}-\text{NR}^2-$ atoms, a five or six membered saturated heterocyclic ring which optionally contains an additional N or O atom, and is unsubstituted or substituted by one or more R^7 groups or one of the ring carbon atoms may form a carbonyl or imino group, and which ring is optionally fused to a benzene ring optionally substituted by R^7 ;

or when Z is YR^1 , R^1 and R^3 may form together with the adjacent $-\text{Y}-\text{C}-\text{NR}^2-$ atoms, a group (A²):



Y, X and W are each independently O or S;

or R¹ and R⁴ may form together with the adjacent -X-C-W- group, a five or six membered unsaturated, partially saturated or saturated heterocyclic ring, unsubstituted or substituted by one or more R⁷ groups or one of the ring carbon atoms may form a carbonyl group;

R¹ is (C₁-C₈)alkyl, (C₃-C₆)alkenyl, (C₃-C₆)alkynyl or (C₃-C₈)cycloalkyl, which last four mentioned groups are unsubstituted or substituted by one or more R⁸ groups; or is (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl which cycloalkyl is unsubstituted or substituted by one or more R⁸ groups; or is -(CR⁹R¹⁰)_pR¹¹ or -(CR⁹R¹⁰)_pheterocyclyl; or when Y is O is (C₁-C₆)alkylamino, NH(C₃-C₈)cycloalkyl or NH(CH₂)_sR¹¹;

R^{2a} is (C₁-C₈)alkyl, (C₃-C₆)alkenyl, (C₃-C₆)alkynyl, (C₃-C₈)cycloalkyl, (C₁-C₆)alkoxy, (C₃-C₆)alkenyloxy, (C₃-C₆)alkynyloxy, (C₁-C₆)alkylamino, di-(C₁-C₆)alkylamino, NHCO(C₁-C₆)alkyl, NHSO₂(C₁-C₆)alkyl, CO(C₁-C₆)alkyl or SO₂(C₁-C₆)alkyl which last thirteen mentioned groups are unsubstituted or substituted by one or more R⁸ groups; or is (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl which cycloalkyl is unsubstituted or substituted by one or more R⁸ groups; or is -(CR⁹R¹⁰)_pR¹¹, -(CR⁹R¹⁰)_pheterocyclyl, OH, SO₂R¹¹, NH₂, NHCOR¹¹, NHR¹¹, NH(C₃-C₈)cycloalkyl, NH(CH₂)_sR¹¹, O(CHR¹⁰)_rR¹¹; O(CH₂)_rheterocyclyl or N=C[(C₁-C₆)alkyl]₂; or is (C₃-C₆)alkenyl substituted by R¹¹;

R² and R⁵ are each independently R^{2a} or H;

R³ and R⁶ are each independently H or R¹;

R⁴ is (C₁-C₆)alkyl substituted by R⁸; or is (C₃-C₆)alkenyl, (C₃-C₆)alkynyl or (C₃-C₈)cycloalkyl which last three mentioned groups are unsubstituted or substituted by one or more R⁸ groups; or is (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl unsubstituted or substituted by one or more R⁸ groups; or is -(CR⁹R¹⁰)_pR¹¹ or -(CR⁹R¹⁰)_pheterocyclyl; or when W is O, R⁴ is (C₁-C₆)alkylamino;

or R² and R³ together with the adjacent N atom form a 3 to 8-membered unsaturated, partially saturated or saturated heterocyclic ring which optionally contains up to three additional N, O or S atoms and which ring is unsubstituted or substituted by one or more R⁷ groups;

R⁷ is R⁸, R⁴, (C₁-C₆)alkyl or CH₂OH;

R⁸ is halogen, (C₁-C₆)alkoxy, (C₁-C₆)haloalkoxy, S(O)_nR¹², CN, CO₂(C₁-C₆)alkyl, CO₂H, NO₂, OH, amino, (C₁-C₆)alkylamino, di-(C₁-C₆)alkylamino, carbamoyl, (C₁-C₆)-alkylcarbamoyl, di-(C₁-C₆)-alkylcarbamoyl, CH[O(C₁-C₆)alkyl]₂, (C₃-C₆)alkenyloxy, (C₃-C₆)alkynyloxy or O(CH₂)_rR¹¹;

R⁹ and R¹⁰ are each independently H, (C₁-C₆)alkyl or (C₁-C₆)haloalkyl;

R¹¹ is aryl unsubstituted or substituted by one or more groups selected from (C₁-C₆)alkyl, (C₁-C₆)haloalkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl, (C₃-C₈)cycloalkyl, -(CH₂)_uR¹³, heterocyclil, halogen, (C₁-C₆)alkoxy, (C₁-C₆)haloalkoxy, S(O)_nR¹², CN, CO₂(C₁-C₆)alkyl, NO₂, amino, (C₁-C₆)alkylamino and di-(C₁-C₆)alkylamino;

R¹² is (C₁-C₆)alkyl or (C₁-C₆)haloalkyl;

R¹³ is phenyl unsubstituted or substituted by one or more groups selected from halogen, (C₁-C₆)alkyl and (C₁-C₆)haloalkyl;

R^e is H, (C₁-C₆)alkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl, (C₃-C₈)cycloalkyl, (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl, halogen, (C₁-C₆)alkoxy, (C₁-C₆)haloalkoxy, S(O)_nR¹², (C₃-C₆)alkenyloxy, (C₃-C₆)alkynyloxy, -(CH₂)_pR¹¹, heterocyclil, CN, CO₂(C₁-C₆)alkyl, NO₂, amino, (C₁-C₆)alkylamino, di-(C₁-C₆)alkylamino or O(CH₂)_rR¹¹ wherein r is 0 or 1;

U is N or CH,

m, s and u are each independently 0 or 1;

n is 0, 1 or 2;

p is 0, 1, 2 or 3;

r is 0 or an integer from 1 to 6; and each heterocyclil in the above mentioned radicals is independently a mono or bicyclic heterocyclic radical having 3 to 7 ring atoms in each ring and 1 to 4 hetero atoms selected from N, O and S; with the proviso that in (A) when Z is NR⁵R⁶ then up to three of R², R³, R⁵ and R⁶ are not simultaneously H;

or a pesticidally acceptable salt thereof.

2. (Original) A compound or a salt thereof as claimed in claim 1, wherein Z is YR¹;
or when Z is YR¹, R¹ and R³ may form together with the adjacent -Y-C-NR²- atoms, a five or six membered saturated heterocyclic ring which optionally contains an additional N or O atom, and is unsubstituted or substituted by one or more R⁷ groups or one of the ring carbon atoms may form a carbonyl or imino group, and which ring is optionally fused to a benzene ring optionally substituted by R⁷;
one of X and W is O and the other is S;
or R¹ and R⁴ may form together with the adjacent -X-C-W- group, a five or six membered unsaturated, partially saturated or saturated heterocyclic ring, unsubstituted or substituted by one or more R⁷ groups or one of the ring carbon atoms may form a carbonyl group.

3. (Currently Amended) A compound or a salt thereof as claimed in claim 1-~~or 2~~, wherein R¹ is (C₁-C₈)alkyl or (C₃-C₆)alkenyl, which groups are unsubstituted or substituted by one or more groups selected from (C₁-C₄)alkoxy, S(O)_nR¹² and OH; or is -(CR⁹R¹⁰)_pR¹¹.

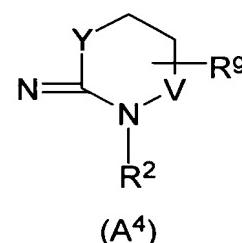
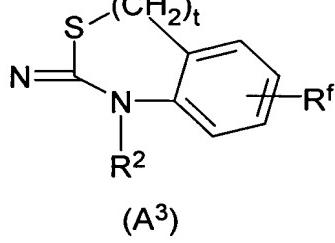
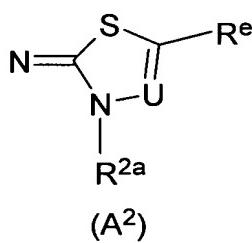
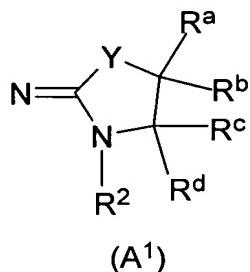
4. (Currently Amended) A compound or a salt thereof as claimed in ~~any one of claims 1 to 3~~ claim 1, wherein R² is H, (C₃-C₆)alkenyl, (C₃-C₆)alkynyl, (C₁-C₆)alkoxy, (C₃-C₆)alkenyloxy, (C₃-C₆)alkynyloxy, -(CR⁹R¹⁰)_pR¹¹, -(CR⁹R¹⁰)_pheterocyclyl, NHR¹¹ or O(CH₂)_rR¹¹; or is (C₁-C₈)alkyl unsubstituted or substituted by a di-(C₁-C₄)alkylamino group.

5. (Currently Amended) A compound or a salt thereof as claimed in ~~any one of claims 1 to 4~~ claim 1, wherein R³ is (C₁-C₈)alkyl or (C₃-C₆)alkenyl, which groups are unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is H or -(CR⁹R¹⁰)_pR¹¹.

6. (Currently Amended) A compound or a salt thereof as claimed in ~~any one of claims 1 to 5~~ claim 1, wherein R⁴ is (C₁-C₈)alkyl substituted by (C₁-C₄)alkoxy or OH;

or is (C₃-C₆)alkenyl, (C₃-C₆)alkynyl or (C₃-C₈)cycloalkyl which last three mentioned groups are unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl which cycloalkyl is unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is -(CR⁹R¹⁰)_pR¹¹ or -(CR⁹R¹⁰)_pheterocyclyl.

7. (Original) A compound or a salt thereof as claimed in claim 1, wherein N=Q is a formula (A) in which Z is YR¹ and R¹ and R³ form together with the adjacent -Y-C-NR²- atoms, a heterocyclic ring which is of formula (A¹), (A²), (A³) or (A⁴):



wherein:

Y is O or S;

U is N or CH;

V is O or CH₂;

t is 0 or 1;

R^a, R^b, R^c and R^d are each independently selected from H, (C₁-C₆)alkyl, (C₁-C₆)haloalkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl, (C₃-C₈)cycloalkyl, halogen, (C₁-C₆)alkoxy, (C₁-C₆)haloalkoxy, S(O)_nR¹², (C₂-C₆)alkenyloxy, (C₂-C₆)alkynyloxy, R¹¹, heterocycl and O(CH₂)_rR¹¹ wherein r is 0 or 1;

or R^a and R^b , or R^c and R^d may form a carbonyl or imino group;

R^e and R^f are each independently selected from H, (C₁-C₆)alkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl, (C₃-C₈)cycloalkyl, (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl, halogen, (C₁-C₆)alkoxy, (C₁-C₆)haloalkoxy, S(O)_nR¹², (C₂-C₆)alkenyloxy, (C₂-C₆)alkynyloxy, -(CH₂)_pR¹¹, heterocyclyl, CN, CO₂(C₁-C₆)alkyl, NO₂, amino, (C₁-C₆)alkylamino, di-(C₁-C₆)alkylamino and O(CH₂)_rR¹¹ wherein r is 0 or 1;

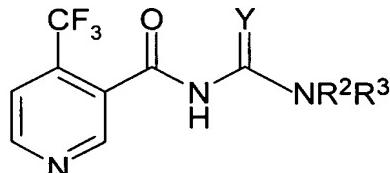
R^9 is H, (C_1-C_6)alkyl, halogen, (C_1-C_6)alkoxy, $CO_2(C_1-C_6)$ alkyl or R^{11} :

R^{2a} is (C_1 - C_6)alkyl unsubstituted or substituted by one or more groups selected from halogen, (C_1 - C_6)alkoxy, $CH[O(C_1-C_6)alkyl]_2$, CN, $CO_2(C_1-C_6)alkyl$ and CO_2H ; or is (C_3 - C_6)alkenyl unsubstituted or substituted by one or more halogen or phenyl

groups; or is (C₃-C₆)alkynyl, (C₃-C₈)cycloalkyl, (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl, (C₁-C₆)alkoxy, (C₃-C₆)alkenyloxy or (C₃-C₆)alkynyoxy; or is -(CHR¹⁰)_pR¹¹ wherein R¹⁰ is H or (C₁-C₈)alkyl, p is 0 or 1 and R¹¹ is phenyl unsubstituted or substituted by one or more groups selected from halogen, (C₁-C₆)haloalkyl, (C₁-C₆)alkoxy, (C₁-C₆)haloalkoxy and phenoxy unsubstituted or substituted by one or more groups selected from halogen and (C₁-C₆)haloalkyl; or is O(CHR¹⁰)_rR¹¹ wherein R¹⁰ is H or (C₁-C₆)alkyl, r is 1 and R¹¹ is phenyl unsubstituted or substituted by one or more groups selected from (C₁-C₆)haloalkyl, (C₁-C₆)alkoxy and NO₂; and R² is R^{2a} or H.

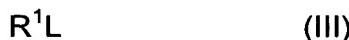
8. (Currently Amended) A process for the preparation of a compound of formula (I) or a salt thereof as defined in ~~any one of claims 1 to 7~~ claim 7, which process comprises:

a) where N=Q is a formula (A) in which Z is YR¹, m is zero, and R¹, R² and R³ are as defined in ~~claim 1~~ claim 7, ~~the reaction of reacting~~ a compound of formula (II):



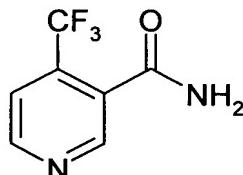
(II)

wherein Y, R² and R³ are as defined in formula (I), with a compound of formula (III):



wherein R¹ is as defined in formula (I) and L is a leaving group in the presence of a base; or

b) where N=Q is a formula (A) in which Z is YR¹, m is zero, R³ is H, and R¹ and R² are as defined in formula (I), ~~the as a 1-pot reaction,~~ reacting of a compound of formula (IV):



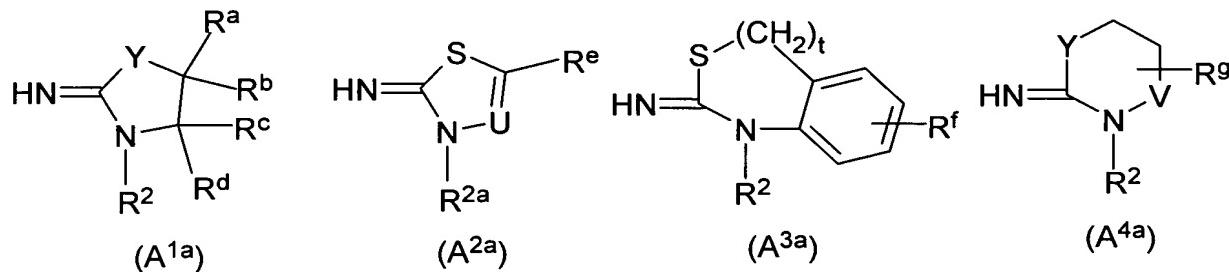
(IV)

with a strong base, and an isothiocyanate or isocyanate compound of formula (V):

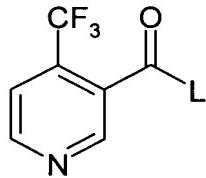


wherein R² is as defined in formula (I) to give the corresponding acylthiourea or acylurea intermediate of formula (II) above wherein R³ is H, ~~which is reacted followed by reacting said intermediate with a compound of formula (III)~~ as described in above process claim a); or

c) where N=Q is a formula (A) which is a heterocyclic ring of formula (A¹), (A²), (A³) or (A⁴), wherein the various symbols are as defined in claim 7, ~~the acylation of acylating~~ the corresponding compound of formula (A^{1a}), (A^{2a}), (A^{3a}) or (A^{4a}):



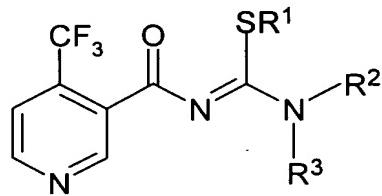
wherein the various symbols are as defined in claim 7, with a compound of formula (VI):



(VI)

wherein L is a leaving group; or

d) where N=Q is a formula (A) in which Z is NR⁵R⁶, m is zero, and R², R³, R⁵ and R⁶ are as defined in formula (I), ~~the reaction of reacting~~ a compound of formula (VII):



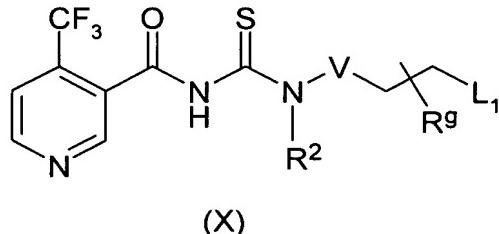
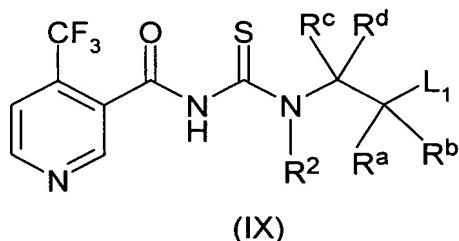
(VII)

wherein R¹, R² and R³ are as defined in formula (I), with a compound of formula (VIII):



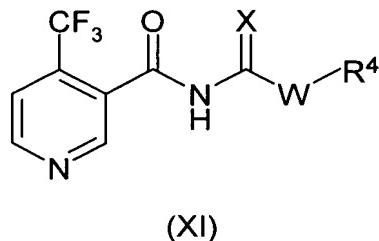
wherein R⁵ and R⁶ are as defined in formula (I), in the presence of a base; or

- e) where N=Q is a formula (A) which is a heterocyclic ring of formula (A¹) or (A⁴), m is zero, Y is S and the other symbols are as defined in claim 7, ~~the cyclisation reaction of cyclizing~~ a compound of formula (IX) or (X) respectively:



wherein the various symbols are as defined in formula (I) and L₁ is a leaving group, in the presence of a base; or

- f) where m is zero and N=Q is a formula (B) in which R¹ and R⁴ are as defined in formula (I), ~~the reaction of reacting~~ a compound of formula (XI):



wherein X, W and R⁴ are as defined in formula (I), with a compound of formula (III) as defined in the above process a), in the presence of a base; or

- g) where Q is as defined above, and m is 1 ~~the oxidation of oxidizing~~ a corresponding compound in which m is 0; and if desired, converting a resulting compound of formula (I) into a pesticidally acceptable salt thereof.

9. (Currently Amended) A pesticidal composition comprising a pesticidally effective amount of a compound of formula (I) or a pesticidally acceptable salt thereof as defined in ~~any one of claims 1 to 7~~ claim 1, in association with a pesticidally acceptable diluent or carrier and/or surface active agent.

10. (Canceled)

11. (New) A compound or salt thereof as claimed in claim 2, wherein R¹ is (C₁-C₈)alkyl or (C₃-C₆)alkenyl, which groups are unsubstituted or substituted by one or more groups selected from (C₁-C₄)alkoxy, S(O)_nR¹² and OH; or is -(CR⁹R¹⁰)_pR¹¹.
12. (New) A compound or salt thereof as claimed in claim 2, wherein R² is H, (C₃-C₆)alkenyl, (C₃-C₆)alkynyl, (C₁-C₆)alkoxy, (C₃-C₆)alkenyloxy, (C₃-C₆)alkynyloxy, -(CR⁹R¹⁰)_pR¹¹, -(CR⁹R¹⁰)_pheterocycll, NHR¹¹ or O(CH₂)_rR¹¹; or is (C₁-C₈)alkyl unsubstituted or substituted by a di-(C₁-C₄)alkylamino group.
13. (New) A compound or salt thereof as claimed in claim 3, wherein R² is H, (C₃-C₆)alkenyl, (C₃-C₆)alkynyl, (C₁-C₆)alkoxy, (C₃-C₆)alkenyloxy, (C₃-C₆)alkynyloxy, -(CR⁹R¹⁰)_pR¹¹, -(CR⁹R¹⁰)_pheterocycll, NHR¹¹ or O(CH₂)_rR¹¹; or is (C₁-C₈)alkyl unsubstituted or substituted by a di-(C₁-C₄)alkylamino group.
14. (New) A compound or salt thereof as claimed in claim 2, wherein R³ is (C₁-C₈)alkyl or (C₃-C₆)alkenyl, which groups are unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is H or -(CR⁹R¹⁰)_pR¹¹.
15. (New) A compound or salt thereof as claimed in claim 3, wherein R³ is (C₁-C₈)alkyl or (C₃-C₆)alkenyl, which groups are unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is H or -(CR⁹R¹⁰)_pR¹¹.
16. (New) A compound or salt thereof as claimed in claim 4, wherein R³ is (C₁-C₈)alkyl or (C₃-C₆)alkenyl, which groups are unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is H or -(CR⁹R¹⁰)_pR¹¹.
17. (New) A compound or salt thereof as claimed in claim 2, wherein R⁴ is (C₁-C₈)alkyl substituted by (C₁-C₄)alkoxy or OH; or is (C₃-C₆)alkenyl, (C₃-C₆)alkynyl or (C₃-C₈)cycloalkyl which last three mentioned groups are unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl which cycloalkyl is unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is -(CR⁹R¹⁰)_pR¹¹ or -(CR⁹R¹⁰)_pheterocycll.

18. (New) A compound or salt thereof as claimed in claim 3, wherein R⁴ is (C₁-C₈)alkyl substituted by (C₁-C₄)alkoxy or OH; or is (C₃-C₆)alkenyl, (C₃-C₆)alkynyl or (C₃-C₈)cycloalkyl which last three mentioned groups are unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl which cycloalkyl is unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is -(CR⁹R¹⁰)_pR¹¹ or -(CR⁹R¹⁰)_pheterocyclyl.

19. (New) A compound or salt thereof as claimed in claim 4, wherein R⁴ is (C₁-C₈)alkyl substituted by (C₁-C₄)alkoxy or OH; or is (C₃-C₆)alkenyl, (C₃-C₆)alkynyl or (C₃-C₈)cycloalkyl which last three mentioned groups are unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl which cycloalkyl is unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is -(CR⁹R¹⁰)_pR¹¹ or -(CR⁹R¹⁰)_pheterocyclyl.

20. (New) A compound or salt thereof as claimed in claim 5, wherein R⁴ is (C₁-C₈)alkyl substituted by (C₁-C₄)alkoxy or OH; or is (C₃-C₆)alkenyl, (C₃-C₆)alkynyl or (C₃-C₈)cycloalkyl which last three mentioned groups are unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is (C₃-C₈)cycloalkyl-(C₁-C₆)alkyl which cycloalkyl is unsubstituted or substituted by an (C₁-C₄)alkoxy or OH group; or is -(CR⁹R¹⁰)_pR¹¹ or -(CR⁹R¹⁰)_pheterocyclyl.

21. (New) A method for the control of arthropod or nematode pests, said method comprising applying to said pests or to a locus at which they reside or feed or which is susceptible to infestation thereby, a pesticidally effective amount of a compound or salt thereof as claimed in claim 1.

22. (New) A method for the control of arthropod or nematode pests, said method comprising applying to said pests or to a locus at which they reside or feed or which is susceptible to infestation thereby, a pesticidally effective amount of a composition as claimed in claim 9.